

# SERVICE MANUAL

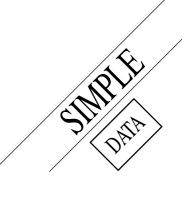
**CD MECHANISM** 

BASIC CD MECHANISM: 3ZG-2 E2

TYPE
CS3DM
CS3NDM
YCS3NDM

Replace this Service Manual with "Revision Publishing" when it is issued.

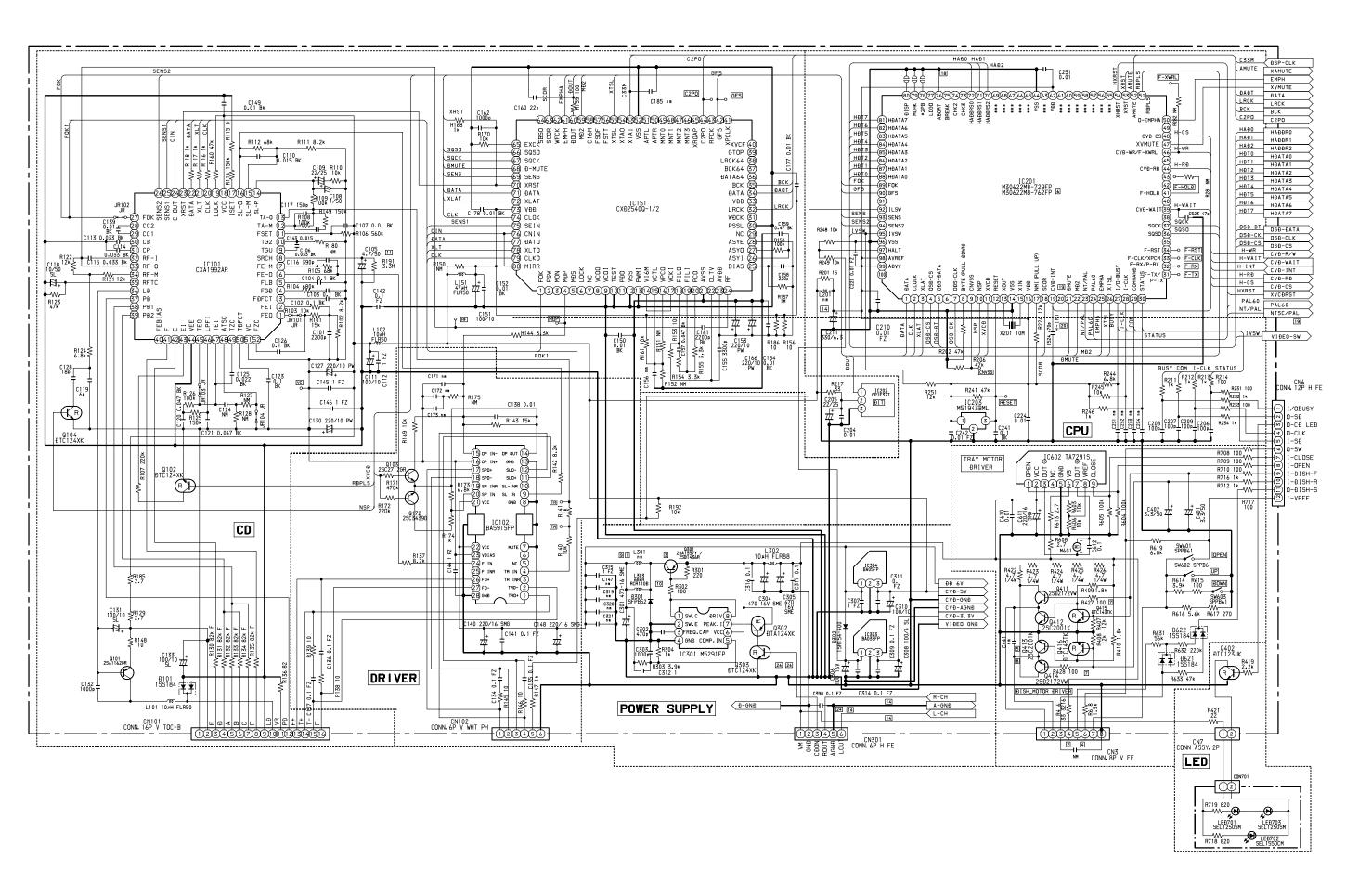




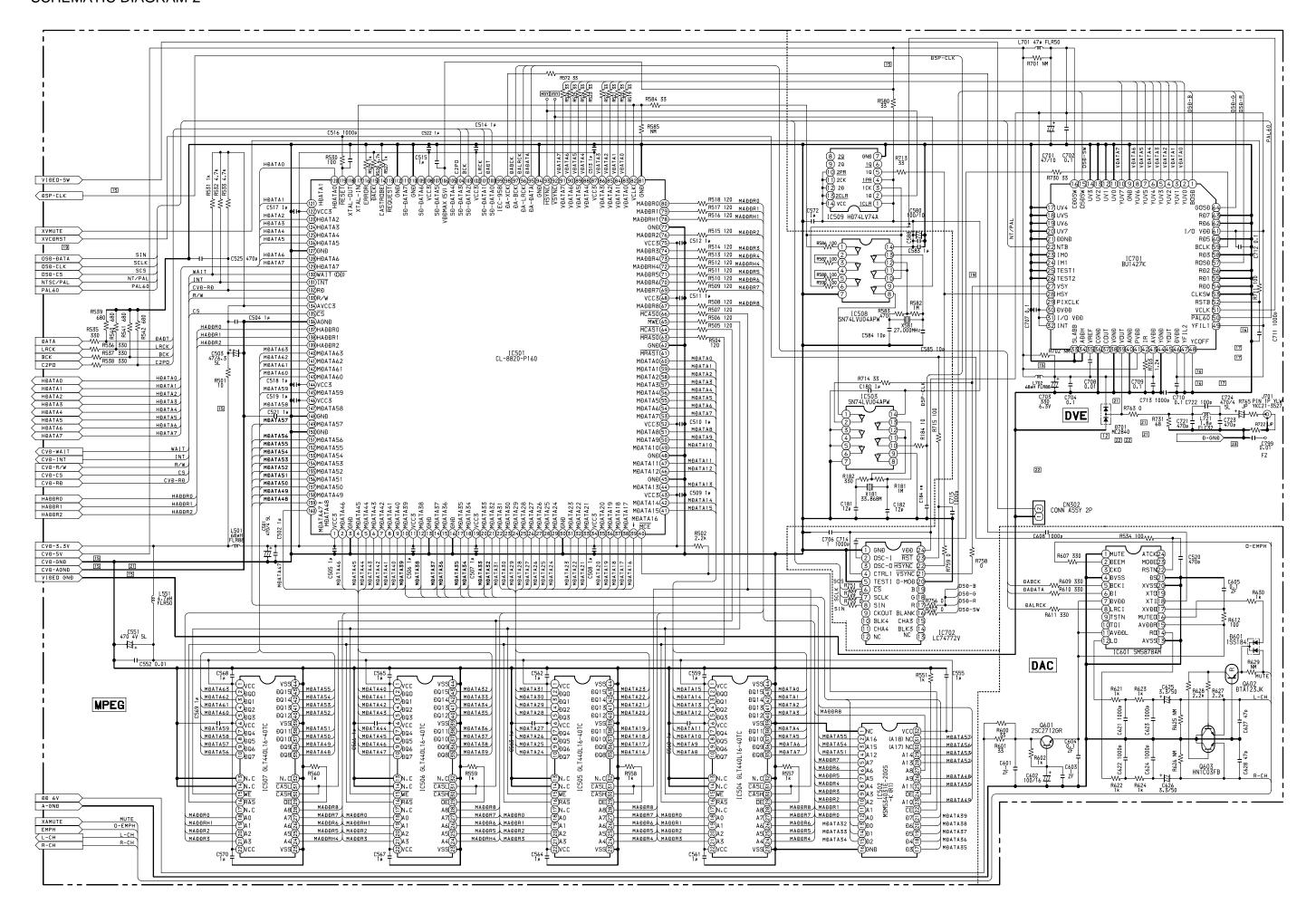
## MECHANICAL PARTS LIST 1/1

NOTE: The characters in the suffix column indicate the part usage.

aa251					
YCS31	MDM				
DDD .			KANI		CHERTY
REF.1	NO	PARTS NO.	NO	. DESCRIPTION	SUFFIX
		01 701 054 010	ОΠ	a capen mean in pp	3 D.C
				S-SCREW, MECH HLDR	ABC
		83-ZG3-211-010			ABC
		83-ZG3-604-010		•	ABC
		84-ZG1-207-010			ABC
				BELT, SQ1.8-117.7	ABC
		84-ZG1-256-010		•	ABC
				PULLEY, LOAD MO 8	ABC
		84-ZG2-228-010		-	ABC
		86-ZG1-001-410			ABC
				TURN TABLE, 5CD	ABC
		86-ZG1-003-110		•	A
		86-ZG1-004-010			A
		86-ZG1-005-110		•	ABC
		86-ZG1-201-310			ABC
		86-ZG1-202-210			ABC
		86-ZG1-203-210			ABC
		86-ZG1-204-110			ABC
		86-ZG1-205-110	0E	GEAR, TRAY	ABC
		86-ZG1-206-110			ABC
		86-ZG1-208-010	1A	LEVER, TRAY	ABC
		86-ZG1-209-110	1B	SLIDER, CAM L(*)	ABC
		86-ZG1-210-110	1B	SLIDER, CAM R(*)	ABC
		86-ZG1-211-210	1в	JOINT, CAM	ABC
		86-ZG1-212-410	1B	SLIDER, LOAD	ABC
		86-ZG1-213-110	ΟE	LEVER, LOAD	ABC
		86-ZG1-214-110	ΟE	LEVER, PROTECT	ABC
		86-ZG1-215-010	1B	HLDR, CHUCK	ABC
		86-ZG1-216-010	0E	SPR-E,JT	ABC
		86-ZG1-217-010	ΟE	LEVER, SW	ABC
		86-ZG1-218-110	0E	PLATE, GEAR	ABC
		86-ZG1-220-110	ΟE	SPR-P,LOCK	ABC
		86-ZG1-221-010	1A	PULLEY,TT	ABC
		86-ZG1-223-110	0E	GEAR, WORM-WHEEL TT	ABC
		86-ZG1-224-110	ΟE	LEVER,TT(*)	ABC
		86-ZG1-225-010	0E	BELT,SQ1.2-32.9	ABC
		86-ZG1-226-010	0E	SPR-E, LEVER TT	ABC
		86-ZG1-227-110	0E	GEAR, TT-A	ABC
		86-ZG1-228-110	ΟE	GEAR,TT-B	ABC
		86-ZG1-231-010	0E	SPR-C, WORM	ABC
		86-ZG1-232-010			ABC
		86-ZG1-238-010	ΟE	HLDR, MAGNET 6ZG N	ABC
		86-ZG1-239-110			ABC
		87-067-579-010	ΟE	TAPPING SCREW, BVT2+3-8	ABC
				TAPPING SCREW, BVT2+3-10	A
		87-078-148-010	ΟE	VFT2+3-12(F10) BLK	ABC
*		87-251-072-410	ΟE	U+2.6-5	ABC
		86-ZG1-605-010	1A	CABLE, FFC 16P	ABC
		86-ZG1-609-010	1D	CONN ASSY, 6P	ABC
		86-ZG1-667-010	1A	F-CABLE,8P 1.25 175MM BLACK	ABC
M 4	401	87-A90-036-010	1D	MOT ASSY, RF-300CA-11	ABC
М 6	601	87-045-305-010	1F	MOTOR, RF-500TB DC-5V (2MA)	ABC
		86-ZG1-229-010	0E	HLDR, SENSOR	ABC
		86-ZG1-230-010	0E	HLDR, DISC SENSOR	ABC



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## **ELECTRICAL MAIN PARTS LIST**

NOTE: The characters in the suffix column indicate the part usage.

CS3	BDM		.xx		A
CS3	SNDM .		.XX		B
YCS	S3NDM		.XX KAN		
REF	.NO			. DESCRIPTION	SUFFIX
С	306	87-010-112-040	0E	CAP,E 100-16	ABC
C	303			CHIP CAP 1000P	ABC
C	309			CHIP CAPACITOR, 0.1-25	ABC
C	305			CAP,E 470-16 SME	ABC
C	301 304			CAP,E 470-16 SME CAP,E 470-16 SME	ABC
C	308			CAP ELECT GAS 100/4	ABC
C	307	87-010-805-080			ABC
C	302	87-012-140-080			ABC
C	317			CHIP CAPACITOR, 0.1-25	ABC
C	316 311			CHIP CAPACITOR, 0.1-25 CHIP CAPACITOR, 0.1-25	ABC
C	314			CHIP CAPACITOR, 0.1-25	ABC
C	310	87-010-263-040			ABC
C	312	87-010-805-080	0E	CAP, S 1-16	ABC
C	315	87-010-805-080			ABC
C	390			CHIP CAPACITOR, 0.1-25	ABC
CN D	301 301	87-A60-154-010		C-DIODE, SFPB52	ABC
D	302			C-DIODE, 3FFB32 C-DIODE, 1SR154-400	ABC
IC	301	87-A20-602-040		· · · · · · · · · · · · · · · · · · ·	ABC
IC	303	87-A20-905-040			ABC
IC	304	87-A20-925-040		•	ABC
L	302			COIL, 10UHK FLR88	ABC
L Q	303 302			COIL,68UH RCR110D CHIP-TRANSISTER,DTA124XK	ABC
Q	303			CHIP-TR, DTC124XK	ABC
Q	301	87-A30-217-010		· · · · · · · · · · · · · · · · · · ·	ABC
C	136			CHIP CAPACITOR, 0.1-25	ABC
C	137			CHIP CAPACITOR, 0.1-25	ABC
C C	135 134			CHIP CAPACITOR, 0.1-25 CHIP CAPACITOR, 0.1-25	ABC
C	138			CAP, CHIP 0.01 DM	ABC
C	141			CHIP CAPACITOR, 0.1-25	ABC
C	144	87-010-805-080	0E	CAP, S 1-16	ABC
C	140			CAP,E 220-16 SMG	ABC
CN	102	87-009-034-010		•	ABC
IC Q	102 103	87-A20-919-040 89-327-125-080		CHIP TR, 2SC2712GR	ABC
Q	172			C-TR, 2SC3439G/H	ABC
Ĉ	402			CAP,E 3.3-50 SME	ABC
C	401			CAP,E 3.3-50 SME	ABC
C	612			CHIP CAPACITOR, 0.1-25	ABC
C C	610 611			CAP, CHIP 0.01 DM CAP,E 220-16 SMG	ABC
CN	3	87-A60-133-010		•	ABC
CN	6	87-A60-160-010			ABC
D	621			CHIP-DIODE 1SS184	ABC
D	622			CHIP-DIODE 1SS184	ABC
IC	602 416	87-001-982-010 87-026-223-080		•	ABC
Q Q	415	87-026-223-080		· · · · · · · · · · · · · · · · · · ·	ABC
Q	412			TR, 2SC2001 (15W)	ABC
Q	413	89-320-011-080	0E	TR,2SC2001 (15W)	ABC
Q	411	89-421-722-380		•	ABC
Q	414	89-421-722-380		· · · · · · · · · · · · · · · · · · ·	ABC
SW SW	601 602	87-036-109-010 87-036-109-010			ABC
SW	603	87-036-109-010			ABC
C	208			C-CAP,S 100P-50 CH	ABC
С	209	87-010-322-080	0E	C-CAP,S 100P-50 CH	ABC
С	206			C-CAP,S 100P-50 CH	ABC
C C	207 210	87-010-322-080 87-010-190-080		C-CAP,S 100P-50 CH	ABC
C	211			CAP,E 330-6.3 SME	ABC
C	224	87-010-190-080			ABC
С	220	87-010-190-080	0E	S CHIP F 0.01	ABC
С	242	87-010-190-080			ABC
C C	241 251	87-016-669-080 87-010-190-080		C-CAP,S 0.1-25 K B	ABC
C	- J - L	5, 510 170 000	تدر	2 3111 1 0.01	1.20

~	F 0 2	07 010 010 000	0.Π	G GAD G 45D FO GH	100
С	523			C-CAP,S 47P-50 CH	ABC
C	524	87-012-140-080	OΕ	CAP 470P	ABC
IC	203	87-017-760-080	1в	IC.M51943BML	ABC
IC	201			C-IC,M30622M8-762FP	ABC
				•	
X	201			VIB, CER 10.0MHZ CST	ABC
C	520	87-012-140-080	OΕ	CAP 470P	ABC
C	602	87-010-112-040	ΟE	CAP,E 100-16	ABC
C	608	87-010-178-080	OΕ	CHIP CAP 1000P	ABC
C	605			CHIP CAPACITOR, 0.1-25	ABC
C	604			CHIP CAPACITOR, 0.1-25	ABC
C	603	87-010-805-080			ABC
C	601	87-010-805-080	ΟE	CAP, S 1-16	ABC
C	621	87-010-178-080	OΕ	CHIP CAP 1000P	ABC
C	622	87-010-178-080			ABC
C	623	87-010-178-080			ABC
C	624	87-010-178-080	OΕ	CHIP CAP 1000P	ABC
C	628	87-010-318-080	ΟE	C-CAP,S 47P-50 CH	ABC
C	627	87-010-318-080	OΕ	C-CAP,S 47P-50 CH	ABC
C	625			CAP,E 3.3-50 SME	ABC
C	626			CAP,E 3.3-50 SME	ABC
D	601	87-020-027-080	OΕ	CHIP-DIODE 1SS184	ABC
IC	601	87-A20-918-040	1E	C-IC,SM5878AM	ABC
Q	603			TR, HN1C03F (0.3W)	ABC
_	602	87-026-580-080			ABC
Q					
Q	601			CHIP TR, 2SC2712GR	ABC
C	572	87-010-805-080	ΟE	CAP, S 1-16	ABC
C	704	87-010-196-080	0E	CHIP CAPACITOR, 0.1-25	ABC
Ċ	702			CHIP CAPACITOR, 0.1-25	ABC
C	709			CHIP CAPACITOR, 0.1-25	ABC
C	707	87-010-196-080	OΕ	CHIP CAPACITOR, 0.1-25	ABC
C	708	87-010-197-080	ΟE	CAP, CHIP 0.01 DM	ABC
C	703			CAP,E 330-6.3 SME	ABC
	701	87-010-374-040			ABC
C					
C	706	87-010-805-080			ABC
C	713	87-010-178-080	OΕ	CHIP CAP 1000P	ABC
C	714	87-010-178-080	0E	CHIP CAP 1000P	ABC
С	715	87-010-178-080	OΕ	CHID CAD 1000D	ABC
	711	87-010-178-080			ABC
C					
C	712			CHIP CAPACITOR, 0.1-25	ABC
C	710	87-010-196-080	OΕ	CHIP CAPACITOR, 0.1-25	ABC
C	722	87-010-322-080	0E	C-CAP,S 100P-50 CH	ABC
C	723	87-012-140-080		· · · · · · · · · · · · · · · · · · ·	ABC
C	721	87-012-140-080			ABC
C	724			CAP,E 470-4 MA GAS	ABC
C	799	87-010-196-080	OΕ	CHIP CAPACITOR, 0.1-25	ABC
D	701	87-A40-313-080	0E	C-DIODE,MC 2840	ABC
IC	509	87-A21-309-040			ABC
	701				
IC		87-A21-305-010			ABC
IC	702			C-IC,LC74772V-9015-TLM	ABC
J	701	87-A60-414-010	1A	JACK, PIN 1P YLW YKC21-3527	ABC
L	701	87-005-440-080	ΟE	COIL,47UH FLR50	ABC
L	702			COIL,68UHK FLR88	ABC
L	721			C-COIL, 1.8UH FLC32	ABC
				•	
C	181	87-010-311-080			ABC
C	182	87-010-311-080	OΕ	CAP 12P	ABC
C	180	87-010-805-080	0E	CAP, S 1-16	ABC
C	503	87-010-078-040	OΕ	CAP,E 47-6.3 5L	ABC
C	505	87-010-805-080			ABC
				•	
C	504	87-010-805-080			ABC
C	502	87-010-805-080	OΕ	CAP, S 1-16	ABC
C	507	87-010-805-080	0E	CAP, S 1-16	ABC
C	506	87-010-805-080			ABC
C	508			•	ABC
		87-010-805-080			
C	509	87-010-805-080			ABC
C	501	87-016-350-040	OΕ	CAP,E 470-4 MA GAS	ABC
C	516	87-010-178-080	0E	CHIP CAP 1000P	ABC
C	517	87-010-805-080			ABC
C	512	87-010-805-080			ABC
				•	
C	513	87-010-805-080			ABC
C	518	87-010-805-080	OΕ	CAP, S 1-16	ABC
C	514	87-010-805-080	ΟE	CAP, S 1-16	ABC
С	510	87-010-805-080			ABC
C	515	87-010-805-080			ABC
C	511	87-010-805-080		•	ABC
C	519	87-010-805-080			ABC
C	522	87-010-197-080	ΟE	CAP, CHIP 0.01 DM	ABC
C	521	87-010-805-080	ΟE	CAP, S 1-16	ABC
C	525	87-012-140-080		•	ABC

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ABC.....
                          552 87-010-197-080 0E CAP, CHIP 0.01 DM
                         555 87-010-805-080 0E CAP, S 1-16
                                                                                                                                                                                                                                                                                                          ABC.....
                          559 87-010-805-080 0E CAP, S 1-16
                                                                                                                                                                                                                                                                                                     ABC.....
                         551 87-016-350-040 0E CAP,E 470-4 MA GAS
563 87-010-805-080 0E CAP, S 1-16
567 87-010-805-080 0E CAP, S 1-16
                                                                                                                                                                                                                                                                                                   ABC.....
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                          567 87-010-805-080 0E CAP, S 1-16
                                                                                                                                                                                                                                                                                                    ABC....
      С
                         568 87-010-805-080 0E CAP, S 1-16
560 87-010-805-080 0E CAP, S 1-16
                                                                                                                                                                                                                                                                                                    ABC.....
      С
                                                                                                                                                                                                                                                                                                          ABC.....
      C
                          561 87-010-805-080 OE CAP, S 1-16
                                                                                                                                                                                                                                                                                                          ABC.....
                          569 87-010-805-080 0E CAP, S 1-16
                         566 87-010-805-080 0E CAP, S 1-16
564 87-010-805-080 0E CAP, S 1-16
                                                                                                                                                                                                                                                                                                      ABC.....
      С
      С
                          562 87-010-805-080 0E CAP, S 1-16
                                                                                                                                                                                                                                                                                                        ABC....
                         565 87-010-805-080 0E CAP, S 1-16
570 87-010-805-080 0E CAP, S 1-16
      С
                                                                                                                                                                                                                                                                                                          ABC.....
      С
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      C
C
                         585 87-010-154-080 OE CAP CHIP 10P
                                                                                                                                                                                                                                                                                                     ABC.....
                        584 87-010-154-080 0E CAP CHIP 10P

580 87-010-263-040 0E CAP,E 100-10

583 87-010-805-080 0E CAP, S 1-16

588 87-010-805-080 0E CAP, S 1-16
                                                                                                                                                                                                                                                                                                    ABC.....
                                                                                                                                                                                                                                                                                                     ABC....
      С

      588
      87-010-805-080
      0E CAP, S 1-16
      ABC.

      503
      87-A20-921-040
      1A C-IC,SN74LVU04APW
      ABC.

      508
      87-A20-921-040
      1A C-IC,SN74LVU04APW
      ABC.

      501
      87-A21-307-010
      2F C-IC,CL8820-P160
      ABC.

      504
      87-A21-547-040
      2A C-IC,AS4LC256K16EO-35TC
      ABC.

      507
      87-A21-547-040
      2A C-IC,AS4LC256K16EO-35TC
      ABC.

      508
      87-A21-547-040
      2A C-IC,AS4LC256K16EO-35TC
      ABC.

      506
      87-A21-547-040
      2A C-IC,AS4LC256K16EO-35TC
      ABC.

      502
      8A-ZG2-615-040
      1H C-IC,MSM534031E-20GS-K(R1)
      ABC.

      501
      87-A50-518-080
      0E COIL,68UHK FLR88
      ABC.

      551
      87-005-428-080
      0E COIL 4.7UH K FLR50
      ABC.

      181
      87-A70-005-080
      1C VIB,XTAL 33.8688MHZ HC-49/U03
      ABC.

                                                                                                                                                                                                                                                                                                    ABC.....
      C
      IC
      IC
      IC
      IC
      TC
      IC
                        | SSI | 07-005-428-080 | 0E | COIL | 4.70H | K | FLR50 | ABC | ABC
X 581 87-A70-005-080 1C VIB, XTAL 231.8688MHZ MC-49/U03 ABC.

X 581 87-A70-125-080 1B VIB, XTAL 27MEZ 50PPM ABC.

LED 702 87-017-350-080 0E LED, SEL1250SM A.

LED 703 87-017-733-080 0E LED, SEL1250SM A.

LED 703 87-017-733-080 0E LED, SEL1250SM A.

86-261-229-010 0B LIDR, SENSOR ABC.

86-261-229-010 0B LIDR, SENSOR ABC.

C 411 87-A11-148-080 0E CAP, TC U 0.1-50 Z F ABC.

CON 8 87-A60-156-010 0E CONN, 8P H FE ABC.

LED 411 87-A070-288-010 0B LED, GL380 ABC.

S 401 87-A90-156-010 1B SORR, 3G-240 ABC.

S 401 87-306-109-010 1A PUSH SWITCH ABC.

C 101 87-010-182-080 0B C-CAP, S 200P-50 B ABC.

C 107 87-010-382-040 0B CAP, CHIP 0.01 DM ABC.

C 108 87-010-382-040 0B CAP, E 22-25 SME ABC.

C 109 87-010-382-040 0B CAP, E 1-50 SME ABC.

C 104 87-010-400-040 0B CAP, E 1-50 SME ABC.

C 104 87-016-669-080 0B C-CAP, S 0.1-25 K B ABC.

C 104 87-016-669-080 0B C-CAP, S 0.1-25 K B ABC.

C 104 87-016-669-080 0B C-CAP, S 0.1-25 K B ABC.

C 104 87-016-669-080 0B C-CAP, S 0.1-25 K B ABC.

C 104 87-010-180-080 0B C-CAP, S 0.1-25 K B ABC.

C 105 87-010-040-040 0B CAP, E 4.7-50 SME ABC.

C 104 87-016-669-080 0B C-CAP, S 0.1-25 K B ABC.

C 105 87-010-040-040 0B CAP, E 4.7-50 SME ABC.

C 107 87-010-180-080 0B C-CAP, S 0.1-25 K B ABC.

C 108 87-010-180-080 0B C-CAP, S 0.1-25 K B ABC.

C 101 87-010-180-080 0B C-CAP, S 0.1-25 K B ABC.

C 102 87-016-669-080 0B C-CAP, S 0.1-25 K B ABC.

C 103 87-010-090-080 0B C-CAP, S 0.1-25 K B ABC.

C 110 87-010-190-080 0B C-CAP, S 0.1-25 K B ABC.

C 110 87-010-190-080 0B C-CAP, S 0.1-25 K B ABC.

C 110 87-010-190-080 0B C-CAP, S 0.1-25 K B ABC.

C 110 87-010-190-080 0B C-CAP, S 0.1-25 K B ABC.

C 110 87-010-190-080 0B C-CAP, S 0.1-25 K B ABC.

C 110 87-010-263-040 0B CAP, E 100-10

ABC.

C 110 87-010-263-040 0B CAP, E 100-10

ABC.

C 110 87-010-280-080 0B C-CAP, S 0.1-25 K B ABC.

C 111 87-010-369-080 0B C-CAP, S 0.1-25 K B ABC.

C 112 87-010-190-080 0B C-CAP, S 0.033-25 K B ABC.

C 113 87-010-190-080 0B CAP, E 110-100-100

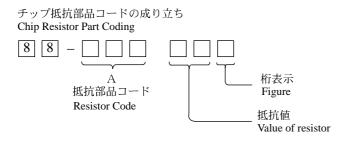
ABC.

C 114 87-010-369-080 0B C-CAP, S 0.033-25 K B ABC.

C 115 87-010-190-080 0
      Χ
      X
      LED 702 87-017-350-080 0E LED, SEL1550CM
                         145 87-010-805-080 0E CAP, S 1-16
                                                                                                                                                                                                                                                                                                     ABC.....
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С	146	87-010-805-080	Э.O.	CAP. S 1-16	ABC
C	148			CAP,E 220-16 SMG	ABC
C	155			CHIP CAPACITOR 3300P(K)	ABC
C	154			CAP, CHIP 0.01 DM	ABC
C	152			CAP, CHIP 0.01 DM	ABC
C	150			CAP, CHIP 0.01 DM	ABC
C	151	87-010-197-080		•	ABC
C	157			C-CAP,S 0.047-25 B	ABC
C	158			C-CAP,S 0.047-25 B	ABC
C	150			C-CAP,S 220P-30 CH C-CAP,S 0.47-16 BK	ABC
C	153				ABC
-				CAP,E 220-10 M PW	
C	162	87-010-178-080			ABC
C	161			C-CAP,S 2200P-50 B	ABC
C	160			C-CAP,S 22P-50V	ABC
C	166			CAP, E 220-10 M PW	ABC
C	177			CAP, CHIP 0.01 DM	ABC
C	178			CAP, CHIP 0.01 DM	ABC
C	204	87-010-190-080			ABC
C	205			CAP,E 22-25 SME	ABC
CN	101			CONN,16P V TOC-B	ABC
D	101			CHIP-DIODE 1SS184	ABC
IC	101			C-IC,CXA1992AR	ABC
IC	151			C-IC,CXD2540Q-1/2	ABC
IC	202	87-017-825-010	1E	IC,GP1F32T	ABC
L	101	87-005-432-080	0E	COIL, 10UH	ABC
L	102	87-005-432-080	0E	COIL, 10UH	ABC
L	151	87-005-440-080	0E	COIL,47UH FLR50	ABC
Q	104	87-026-237-080	0E	CHIP-TR,DTC124XK	ABC
Q	102	87-026-237-080	0E	CHIP-TR,DTC124XK	ABC
Q	101	89-111-625-080	0E	TR,2SA1162 (0.15W)	ABC
R	133	87-022-364-080	0E	C-RES,S 82K-1/10W F	ABC
R	132	87-022-364-080	0E	C-RES,S 82K-1/10W F	ABC
R	131	87-022-364-080	0E	C-RES,S 82K-1/10W F	ABC
R	135	87-022-364-080	0E	C-RES,S 82K-1/10W F	ABC
R	134	87-022-364-080	0E	C-RES,S 82K-1/10W F	ABC
R	130	87-022-364-080	0E	C-RES,S 82K-1/10W F	ABC
CON	801			CONN, 2P V S2M-2W	ABC
SW	801			SW,SL 1-1-3 SSSU L9	ABC
				,	

#### ○ チップ抵抗部品コード / CHIP RESISTOR PART CODE



#### チップ抵抗 Chip resistor

容量	種類	許容誤差	記号	寸法 / Diamen	sions (1	mm)		抵抗コード : A
Wattage	Type	Tolerance	Symbol	外形 / Form	L	W	t	Resistor Code : A
1/16W	1608	5%	CJ	<u>L</u> —↓	1.6	0.8	0.45	108
1/10W	2125	5%	CJ		2	1.25	0.45	118
1/8W	3216	5%	СЈ	W	3.2	1.6	0.55	128

サービス技術ニュース						
番号	連絡内容					
G						
G						
G						

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